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Remington Arms Company Inc.  
RESEARCH & DEVELOPMENT TECHNICAL CENTER  
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An initial sample of 10 guns with iron sights were received in January for T & P testing. These guns were subjected to SAAMI Jar-Off, Drop and Rotation tests, shot for POI & sight adjustability and then subjected to dimensional checks for sight hole depth. Inspection of sight hole depths were measured under minimum drawing specification on all sight holes. The inspection method used was questionable, therefore this data is suspect. Three new iron sighted guns received in June (after Iteration 3) for other testing were inspected for sight hole depth and all hole depths measured in specification. Mayfield was notified and asked to check this operation for conformance. This will be done during the next run of sighted product which is scheduled for late June. It was learned that Mayfield now uses an end mill to generate this hole instead of a pointed drill bit. This results in a flat bottom hole which they state eliminates the possibility of dimpling the ID's of barrels during the tap operation. The design allows this change as long as hole depth and thread depth characteristics are maintained. No further follow up verification will be required beyond this recommended self audit. Only 9 guns were subjected to the SAAMI abuse and POI tests since one gun was damaged while adjusting fire control settings to minimum process specification. All 9 guns passed all three SAAMI abuse tests. These same 9 guns were tested for POI versus POA at 100 yds. in the long range to determine if there was adequate sight adjustment in the iron sights. All 9 guns were able to have POI moved to POA at 100 yds. however the rear sights on average were only 1 mark from the rear extreme position (almost all the way down). This gives ample adjustment range to raise the POI for longer range shots but limits the amount of adjustment should the POI need to be moved further downward, for shorter range shots or varying bullet/load configurations. It was noted that front sights came loose relative to the base during both the abuse and POI tests. Mayfield was notified of the sight retention situation and all 10 guns were returned. Mayfield priorities were focused on production of the scoped product until a steady state production process was established. They then refined the dovetail process that attaches the front sight to the base and reworked the returned test guns.

These same samples were received back in E-town for additional testing in May. Iteration 2 testing was to consist of a recheck of sight adjustability at 100 yds. due to the marginal results from the first test and the fact that sights were being reworked. In addition a 60 rd. per gun live fire test was added to check for adequate sight retention. This time around seven of the nine guns tested for POI could not be adjusted in at 100 yds. With the rear sights moved all the way to the rear on the base point of impacts were from 6" to 12" high. The two remaining guns could be adjusted in but rear sights were moved to the extreme rear position. Investigation by Design determined that the barrels on these guns were bent. This could of happened during the SAAMI abuse testing or during product rework in Mayfield. Mayfield was contacted and 10 news guns were requested for another POI/sight adjustability test (Iteration 3). While E-town was waiting for the 10 new guns the 60 round live fire test was run on Iteration 2 guns. No sights loosened during this test.

Iteration 3 was strictly a test to assess POI/sight adjustability on new guns. Guns were received in late May and tested again at 100 yds. in the long range. All 10 guns POI could be adjusted to the POA with adequate adjustment remaining in the rear sight. Sight position varied from 2 to 6 inches from the rear or lowest position.

May 201 Trial & Pilot Test - Remington M710 Centerfire Rifle w/Iron Sights;  
R & D Technical Center Project No. 241095; TI.W0395, TI.W0405, TI.W 0505  
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Subject to Protective Order - Williams v. Remington

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